			- ((N -
	Application No.	Applicant(s)	
Notice of Allowability	10/707,369	SUBRAYA ET AL.	
	Examiner	Art Unit	
	Hoon Song	2882	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comministic comministi	n this application. If not included unication will be mailed in due cou	urse. THIS
2. The allowed claim(s) is/are <u>1-9 and 13-29</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received. e been received in Application cuments have been receive of this communication to file	on No d in this national stage application	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOT r declaration is deficient.	ICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 CF	he drawings in the front (not the ba FR 1.121(d).	ck) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. ☐ Interview S Paper No. 98), 7. ☐ Examiner's	nformal Patent Application (PTO-1 Summary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowa	

DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on 3/30/2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 6301332B1 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

Claims 1-9 and 13-29 are allowed over prior art.

The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 6-7 and 13-29, the prior art fails to teach an electron collector body having at least one coolant circuit and thermally couple to an x-ray tube wherein the collector body has a significantly large surface area that is disposed over and is approximately parallel with a target surface area, and is oriented to receive a significant amount of back-scattered electrons as claimed in independent claim 1.

Regarding claim 2, the prior art fails to teach a first electron collector body and a second electron collector body non-integrally formed each other and thermally coupled to an x-ray tube window and each having at least one coolant circuit with a coolant inlet and a coolant outlet and at least one thermal exchange device coupled to said at least one coolant circuit and reducing temperature of a coolant passing through said at least one thermal exchange device as claimed in independent claim 2.

Regarding claim 3, Roger fails to teach the at least one thermal exchange device is contained within said at least one electron collector body as claimed in claim 3.

Application/Control Number: 10/707,369

Art Unit: 2882

Regarding claims 4 and 8, Roger fails to teach the at least one thermal exchange device comprises a finless porous body as claimed in claims 4 and 8.

Regarding claim 5, Roger fails to teach a cavity and the at least one thermal exchange device formed at least partially of a phase change material and substantially filling said cavity as claimed in claim 5.

Regarding claim 9, Roger fails to teach a x-ray tube window cooling assembly for an x-ray tube having at least one electron collector body coupled to an x-ray tube window and comprising a cavity at least partially filled with a phase change material body in which a coolant circulates through said material body as claimed in impendent claim 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoon Song whose telephone number is (571) 272-2494. The examiner can normally be reached on 8:30 AM - 5 PM, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on (571) 272 - 2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/707,369 Page 4

Art Unit: 2882

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HKS

12/E/OS

DAVID V. BRUCE PRIMARY EXAMINER